

ILLEGIB

Approved For Release 2000/08/23 : CIA-RDP78T05439A000300280032-7

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~~SECRET NO FOREIGN DISSEM~~

DECLASSIFICATION REVIEW by NIMA/DOD 3/22/00

M/EB 189/64
9 April 1964
Copy _____

MEMORANDUM FOR: Chief, Defensive Systems Division, OSI

ATTENTION: [REDACTED] 25X1A

THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS

FROM: Chief, CIA/PID (NPIC)

SUBJECT: Comparison of FAN SONG Radar Trough Antennas

REFERENCES: (a) Requirement C-SI-4-81,215
(b) CIA/PID Project C 553-64

1. This memorandum is in response to your requirement dated 24 March 1964, requesting sketches and description of the various trough antennas of the FAN SONG radar unit associated with the SA-2 missile system.

2. Two basic trough antenna models are believed to be in use with the FAN SONG radar units. Discernible differences in the "S" band and "C" band troughs are shown in the accompanying sketches. The FAN SONG "D" trough does not appear to be a significant change from the "B" model trough, but rather a minor structural modification. That portion of the "D" model trough shown immediately above the reflector should be referred to with caution because of poor detail discernible in the photos available. The conformation of the "C" band trough is felt to be quite accurate as shown in the sketch. The exact angle determined by planes "X" and "Y" on the "B" model trough was difficult to discern---refer to with caution.

On the "C," "D," and "E" model troughs, the antenna reflector is attached to the vertical trough with a small arm, while the horizontal antenna reflector appears to connect to the rotating axle of the horizontal antenna unit. The "B" model horizontal trough antenna reflector also connects to the rotating axle but no photography is available to discern the vertical trough antenna connection.

25X1B [REDACTED]

S-12279

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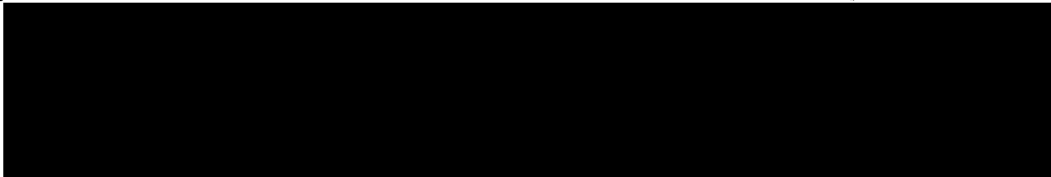
GROUP 1
Excluded from automatic
downgrading and
declassification

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SUBJECT: Comparison of FAN SONG Radar Trough Antennas

M/EB 189/64

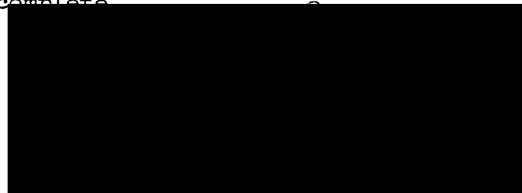
25X1D



3. The photo analyst on this project is [redacted] who may be 25X1A
contacted on extension 3410 should you have any further questions concerning
this project.

4. This project is considered to be complete

25X1A



Enclosures:

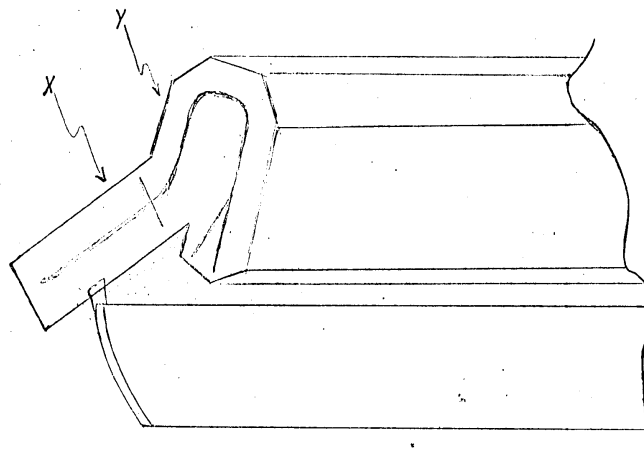
- 1 - Three (3) line drawings
(CIA/FID/MEB-P-346/64 thru
P-348/64)
- 2 - Nine (9) photos
(submitted with requirement)

SECRET—NO FOREIGN DISSEM

CIA/PID/MEB-P-346/64

SECRET/NO FOREIGN DISSEM

FAN SONG "B" TROUGH ANTENNA



PHOTOS USED AND SKETCH

CIA-899553

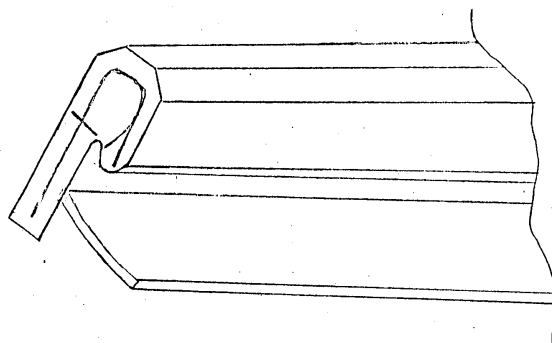
CIA-899555

SECRET/NO FOREIGN DISSEM

CIA/PID/MEB-P-347/64

SECRET/NO FOREIGN DISSEM

FAN SONG "D" TROUGH ANTENNA



PHOTOS USED FOR SKETCH



CIA-539205

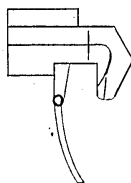
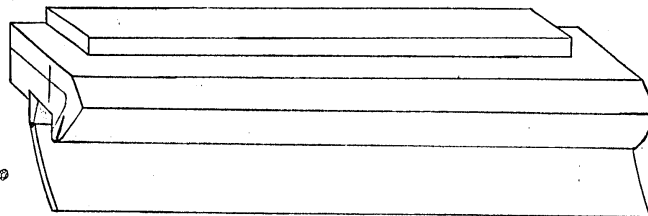
25X1A

SECRET/NO FOREIGN DISSEM

CIA/PID/MEB-P-348/64

SECRET/NO FOREIGN DISSEM

FAN SONG "E+C" TROUGH ANTENNA



PHOTOS USED FOR SKETCH

25X1A



1963208

SECRET/NO FOREIGN DISSEM

USSR

ONE DISH FAN SONG RADAR AT HALIM AIRFIELD, DJAKARTA, INDONESIA. MID MARCH, 1963.

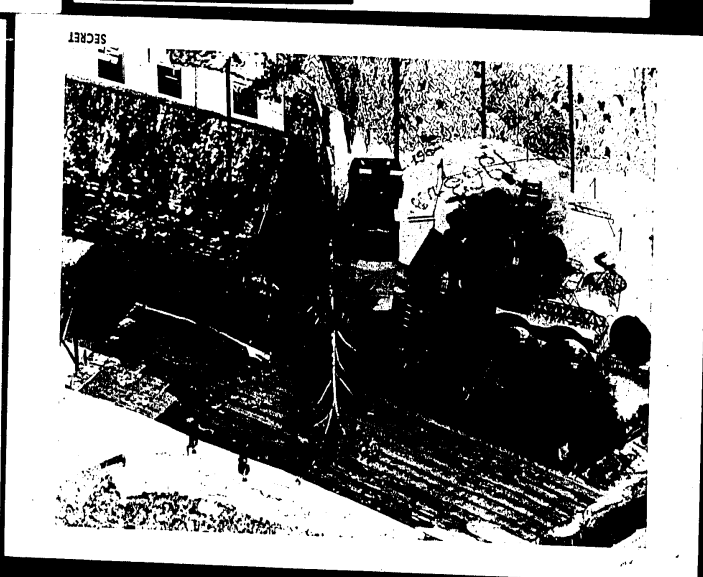
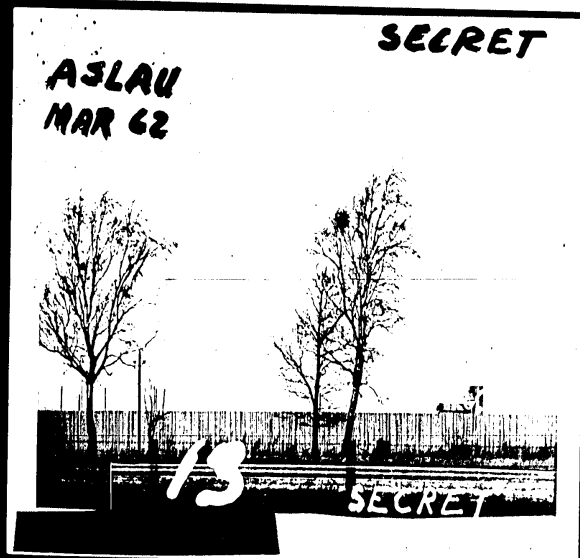
SECRET/NO FOREIGN DISSEM

CIA 899555

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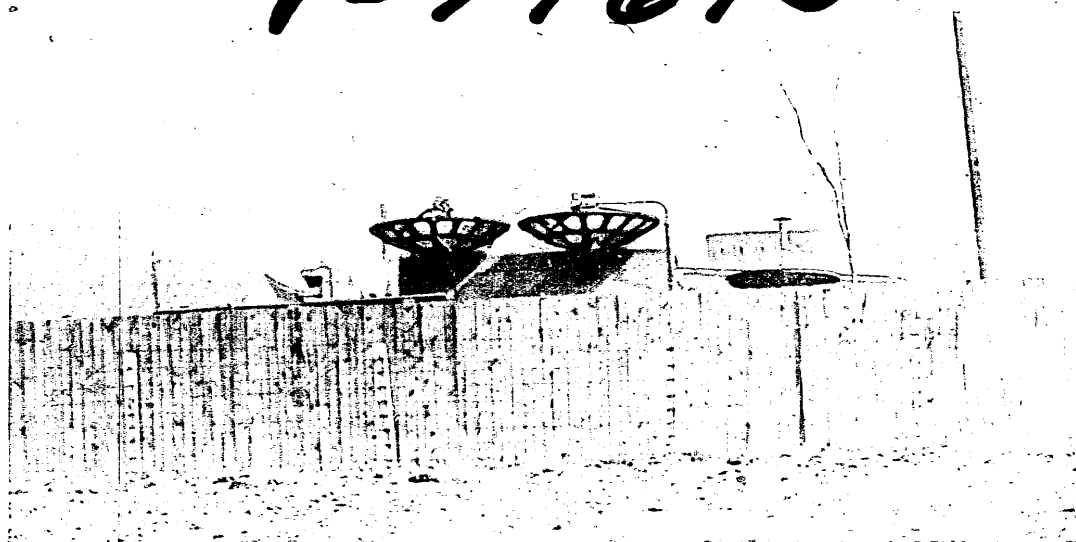




25X1A

CONFIDENTIAL

P-77615



CONFIDENTIAL

DOWNGRADED AT 12 YEAR INTERVALS.
NOT AUTOMATICALLY DECLASSIFIED.DOD DIR 5200.10

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SECRET



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